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APPLICATION NUMBER	FILING DATE	FIRST NAMED AP	PLICANT	ATTY, DOCKET NO.
09/086,327	05/28/98	DURETTE	F	19965Y
				EXAMINER
		HM22/1022		
MOLLIE M. Y MERCK & CO.				ARTUNIT PAPER NUMBER
PATENT DEPT	•			11
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RAHWAY NJ (17065-0 9 07		DATE	MAILED: 10/22/99
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		OFFICE ACTION SUI	MMARY	
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Responsive to communicate	ation(s) filed on	01 -10.		
his action is FINAL.				
osition of Claims				
Claim(s)	6 - 17, 2	0,21	is	/are pending in the application
of the above, claim(s) faim(s) claim(s) claim(s))			withdrawn from consideration
Maim(s)		(= 0 h)		is/are allowed
Claim(s)	<u>6</u> _	11, 20,21		is/are rejected.
		<u> </u>		is/are objected to.
· /		· · · · · · · · · · · · · · · · · · ·	are subject to res	striction or election requiremen
cation Papers				
		ent Drawing Review, PTO-9	48.	
			s/are objected to by the E	
he proposed drawing cor he specification is object			is [_]	approved disapproved.
he oath or declaration is	•			
ty under 35 U.S.C. § 119	-			
		n priority under 35 U.S.C. §	119(a)-(d).	
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received.				
received in Application	n No. (Series Code/	Serial Number)		
		from the International Burea	u (PCT Rule 17.2(a))	

Attachment(s)

Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Notice of Reference Cited, PTO-892

*Certified copies not received:

Information Disclosure Statement(s), PTO-1449, Paper No(s).

☐ Interview Summary, PTO-413

Notice of Draftperson's Patent Drawing Review, PTO-948

■ Notice of Informal Patent Application, PTO-152

-SEE OFFICE ACTION ON THE FOLLOWING PAGES-

Serial No. 086,327 Art Unit 1654

Pursuant to the directives of paper No. 10 (filed 8/12/99), claims 1-5 and 18-19 have been cancelled. Claim 21 has been added. Claims 6-11, 13, 15 have been amended to reflect a change in claim dependence. Claims 6-17, 20, 21 are pending.

Applicants' arguments filed 8/12/99 have been considered and found persuasive in part.

The §102 rejection over Voigt (*Pharmazie* 41, 233, 1986) is withdrawn herewith.

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The following is a quotation of the first paragraph of 35 U.S.C. §112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 6-17, 20, 21 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification asserts that the claimed compounds are antagonists of VLA-4 or $\alpha_4\beta_7$. However, applicants have provided no evidence that this is the case. The specification also asserts that the compounds can be used to treat asthma, allergies, inflammation, MS, and other autoimmune diseases. However, even if it were shown that the compounds are in fact antagonists of VLA-4 or $\alpha_4\beta_7$, it would not necessarily follow therefrom that any disease can be successfully treated. Issues such as proper anatomical localization and

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sufficient as well as selective receptor antagonism remain to be shown. Undue experimentation would be required of the skilled artisan to determine which of the compounds can be used to antagonize VLA-4 or $\alpha_4\beta_7$, or to treat a given disease.

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Claims 15 and 20 are rejected under 35 U.S.C. §112 second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 is dependent on a cancelled claim (claim 5). Variables R^b and R^y are described as being defined in claim 5. The definition of variables R^b and R^y should be made clear.

Claim 20 is dependent on a cancelled claim (claim 5).

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Claims 6-9, 11, 12 and 21 are rejected under 35 U.S.C. §102(b) as being anticipated by El-Naggar (Acta Pharm. Jugosl. 35 15, 1985).

El-Naggar teaches each of the following peptides, wherein "Ar" is dibenzofuran:

Ar-SO₂-Pro-Phe-OMe Ar-SO₂-Pro-Tyr-OMe Ar-SO₂-Pro-Ser-OMe Ar-SO₂-Pro-Val-OMe

The claims encompass these compounds. Appicants' variable R¹ can be Cy; Cy, in turn, can be "heterocyclyl" or "heteroaryl". The dibenzofuranyl group is both "heterocyclyl" and "heteroaryl".

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Thus, the claims are anticipated.

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Claim 20 is rejected under 35 U.S.C. §103 as being unpatentable over El-Naggar (*Acta Pharm. Jugosl.* **35** 15, 1985).

The teachings of the reference are indicated above. The reference does not teach "pharmaceutical compositions". However, the pharmaceutical formulation specialist of ordinary skill is well acquainted with methods of preparing such, and would have have sufficient motivation to do so.

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Claim 20 is rejected under 35 U.S.C. §103 as being unpatentable over Voigt (*Pharmazie* 41, 233, 1986).

As indicated previously, Voigt teaches compound 4 (page 233) which corresponds to one of applicants' compounds in which the substituent variables correspond as follows:

R1 = beta-naphthyl,

B = C

Z = C

X = COOH

R4 = hydrogen

R5 = para-cyano-benzyl

Claim 20 is currently dependent on a cancelled claim; this rejection will be maintained until such time as it becomes clear what is encompassed by claim 20.

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No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lukton [phone number (703)308-3213].

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached at (703) 308-4028.

An inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

DAVED LUKTON
PATENT EXAMENER
GROUP 1800